

MEMORANDUM

TO: Town Council

VIA: Adele P. Schirmer, Planning and Engineering Director

FROM: Matt Stolte, Town Engineer

DATE: March 3, 2005

RE: Cedar Run Pump Station – Engineering Study and Upgrade

RECOMMENDATION: That the Town Manager be authorized to execute a percent complete contract for a total amount of \$63,900, with the engineering firm of Stearns & Wheler, LLC to perform an engineering analysis of the pump station, provide rehabilitation and upgrade recommendations, and prepare a preliminary engineering report.

BACKGROUND: The Cedar Run pump station serves the southern areas of Town extending from approximately Cohee Road on the north to the Industrial Park and Town limits on the south including all areas east of South Main Street and the Gables shopping center area on the west side of Main Street. Within this area, the Highland Park and Forest Hills pump stations pump into the Cedar Run Pump Station. In addition, Cedar Run pump station will receive flow from a new pump station being designed by the Town that will be constructed at the expense of the W.W. Hall and the VT Foundation to serve future development at VTTI and the surrounding industrially zoned area.

The Cedar Run pump station was constructed over 20 years ago by the Sanitation Authority, and ownership was transferred to the Town. The pump station was upgraded in the early 1990's to accommodate growth in the Industrial Park and expansion of the Federal Mogul plant operations. The equipment in the pump station is aged and subject to frequent mechanical problems necessitating excessive maintenance. In addition, overflows have occurred at this pump station during significant rainfall events.

This study will evaluate the current and future flows to the Cedar Run Pump Station, the capacity of the downstream system to accommodate increased pump station output, the feasibility of using the adjacent abandoned Cedar Run treatment plant tanks for emergency overflow containment, and the appropriate location, size, and design for the Cedar Run Pump Station replacement. In addition, consideration must be given to maintaining service during construction, and appropriate control systems given current technology and communication systems. The final product will be a Preliminary

Engineering Report for Health Department approval. This will define the project scope and cost so that at the completion of this study the Town can initiate the preparation of construction plans for this project.

The firm of Stearns and Wheler was selected for this project in accordance with Town and State procurement requirements. This is a large firm with offices in several states. The procurement process included interviews and reference checks. This firm was the unanimous choice of the selection committee. The work will be done from the Roanoke, VA office. This contract has been negotiated with the consultant by Town staff and is fair and reasonable for the consulting work required. Funds are available in current Capital Improvement Program appropriations for the Cedar Run Pump Station upgrade project.

Please advise if I may be of further assistance in this matter.

APPROVAL:

Gary A. Huff

Date

cc: Susan Kaiser, Finance Director